

XXIV. *On the South American species of Diabrotica.*

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THE following list contains the names of species, a few of which, through oversight, have been omitted from the lists given by Mr. Baly and myself, but the great majority of which have been reserved for treatment in this Appendix. It can be readily understood that many of the older descriptions, either from their brevity or their want of structural detail, do not admit of the exact determination of the species upon which they were based. The difficulty becomes all the greater in a group like the present, in which many of the species have the closest resemblance in colour and markings, but differ by structural characters, such as the relative lengths of the joints of the antennæ, the form of the tibiae, the punctuation of the elytra, &c. These descriptions are in some cases, however, sufficiently detailed to enable me to give the position of the species with a near approach to accuracy. Some of the names must take priority of those given by Mr. Baly, who had probably been unable to see the original descriptions. Where the name of a species is not followed by a note, it may be understood that I could not form any conclusion as to its identity.

*D. abdominalis*, Jacoby, Cist. Ent., ii. (1879), p. 525.

(Sect. 2. Probably nearest allied to *D. dimidiata*, Baly.) Peru.

*D. abrupta*, Fabr., Syst. Eleuth., i., p. 453; Oliv.,

Ent., vi., p. 653, t. 4, fig. 68. (? = *D. confaterna*, Baly. Sect. I, No. 104).\* Amer. mer.

\* The number after a species signifies that it bears that number in either Mr. Baly's paper on the species of Section 1, or my paper on the species of Section 2.

- D. admirationis*, Oliv., Ent., iv., p. 654, t. 4, fig. 69.  
(Probably a variety of *D. scripta*, Oliv. Sect. 1,  
No. 9).<sup>1</sup> Guiana.
- D. ambitiosa*, Erichs., Wieg. Archiv., 1847, i., p. 166.  
(Probably near *D. Erichsoni*, Baly. Sect. 2,  
No. 30).<sup>1</sup> Peru.
- D. amplexa*, Erichs., l. c., p. 168.<sup>1</sup> Peru.
- D. angulicollis*, Erichs., Schomb. Reis. Guyana, iii.  
(1848), p. 577. (This is one of the many varieties  
of *D. 10-guttata*, Oliv., Sect. 2, No. 76; it  
may be open to question whether Baly's deter-  
mination of the latter species is correct).<sup>1</sup> Brit. Guiana.
- D. atriventris*, Jacoby, P. Z. S., 1880, p. 606. (Sect.  
2. Nearly allied to *D. divisa*, Baly, No. 136).<sup>1</sup> Ecuador.
- D. basalis*, Jacoby, l. c., p. 605, pl. 55, fig. 8. (To  
follow *D. divisa*, Baly. Sect. 2, Species No.  
136).<sup>1</sup> Ecuador.
- D. biplagiata*, Fauv., Bull. Soc. Linn. de Normandie,  
v. (1861), p. 324. (Appears to resemble *D.  
scripta*, Oliv. Sect. 1, No. 9).<sup>1</sup> Cayenne.
- D. bivittata*, Fabr., Syst. Eleuth., i., p. 455. (This  
species appears twice, under *Diabrotica*, in  
Gemm. & Harold's Catalogue; first as a distinct  
species, and subsequently as a synonym, of *pal-  
lipes*, Oliv. But it cannot be identical with the  
latter, since it is described as having smooth  
elytra).<sup>1</sup> Cayenne.
- D. conciliata*, Erichs., Wieg. Archiv., 1847, i., p. 167. Peru.
- D. cyanipennis*, Fabr., Syst. Eleuth., i., p. 451. Brazil.
- D. decolor*, Erichs., l. c., p. 167. Peru.
- D. dorsonotata*, Fauv., Bull. Soc. Linn. Norm., v.,  
p. 324. (?= *Cerotoma arcuata*, Oliv.).<sup>1</sup> Cayenne.
- D. ebræa*, Fabr., Mant. Ins., i. (1787), p. 89; Syst.  
Eleuth., i., p. 459; *hebræa*, Oliv., Ent., vi.,  
p. 656, t. 5, fig. 72. (?= *Neobrotica nigro-  
guttata*, Baly, Journ. Linn. Soc., xix., p. 243).<sup>1</sup> Cayenne.
- D. fasciata*, Kirsch., Berl. Ent. Zeit., xxvii. (1883),  
p. 200. (Sect. 2. Comes nearest to *D. imi-  
tans*, Jacoby, according to Kirsch.).<sup>1</sup> Ecuador.
- D. flava*, Oliv., Eneycl. Méth., vi. (1791), p. 586;  
Ent., vi., p. 618, t. 2, fig. 16. (? *Diabrotica*).<sup>1</sup> Surinam.
- D. flavonotata*, Jacoby, P. Z. S., 1880, p. 604, pl. 55,  
fig. 7. (Sect. 2. Probably near *D. 10-guttata*,  
Oliv.).<sup>1</sup> E. Ecuador.

- D. gracilenta*, Erichs., *l. c.*, p. 166. ( $\text{?} = D. limitata$ , Baly. Sect. 1. The name *limitata* had been previously used for another species of this genus; see below.) Peru.
- D. instabilis*, Harold, *Mitt. Münch. Ent. Ver.*, 1877, p. 111. Colombia.
- D. limitata*,\* Sahlb., *Peric. Ent. Spec. Insect.* (1823), p. 66, pl. 4, fig. 2; sub. *Cerotoma*, in *Cat. Gemm.* and Harold. ( $= 15-punctata$ , Germ. (1824). Sect. 1, Species No. 4).
- D. lucifera*, Erichs., *l. c.*, p. 166. (Possibly a variety of *D. elegans*, Baly. Sect. 1, No. 57). Peru.
- D. marginalis*, Fabr., *Syst. Eleuth.*, i., p. 454. Amer. mer.
- D. marginata*, Harold, *Coleopt.*, *Hefte xiii.* (1875), p. 91. (Sect. 1. A very distinct and easily recognised species, which seems to have been accidentally omitted from Mr. Baly's list). Bahia.
- D. melanopa*, Erichs., *l. c.*, p. 167. ( $\text{?} = D. fulvescens$ , Baly. Sect. 1, No. 139). Peru.
- D. modesta*, Fabr., *Syst. Eleuth.*, i., p. 451. Amer. mer.
- D. nigróplagiata*, Jacoby, *P. Z. S.*, 1880, p. 604, pl. 55, fig. 9. (Sect. 2. Near *D. divisa*, Baly). Ecuador.
- D. pallipes*, Oliv., *Encyclop. Method.*, vi., p. 590; *Ent.*, vi., p. 633, pl. 3, fig. 39. (Sect. 2. Probably  $= D. Theimei$ , Baly. Species No. 10). Cayenne.
- D. peruana*, Jacoby, *P. Z. S.*, 1878, p. 151. (The description applies in most particulars to a species very closely allied to *D. Hebe*, Baly. In a variety of this species the elytra are entirely pale yellow).
- D. prædita*, Erichs., *l. c.*, p. 166. Peru.
- D. præstans*, Erichs., *l. c.*, p. 167. Peru.
- D. prodiga*, Erichs., *l. c.*, p. 168. Peru.
- D. quadrimaculata*, Jacoby, *P. Z. S.*, 1880, p. 605, pl. 55, fig. 5.
- D. quadrilineata*, Latr., in *Humb. et Bonpl., Obs. de Zool.*, vol. ii., p. 69, pl. 34, fig. 10. ( $= D. albidovittata$ , Baly. Sect. 2, No. 5).
- D. quadrivittata*, Latr., *l. c.*, p. 25, pl. 31, fig. 12. ( $\text{?} = D. similata$ , Baly. Sect. 2, No. 16).
- D. quinquelineata*, Latr., *l. c.*, p. 70, pl. 34, fig. 11. ( $= D. alternata$ , Baly. Sect. 2, No. 56).

\* *D. litterata*, Sahlb., *l. c.*, p. 70, pl. 4, fig. 5. ( $= D. delineata$ , Jac., *Biol. Cent. Am.*). Mexico.

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| <i>D. ruficollis</i> , Fabr., Syst. Eleuth., i., p. 452.  | Amer. mer.   |
| <i>D. rufina</i> , Erichs., l. c., p. 168.  | Peru.        |
| <i>D. sanguinicollis</i> , Jacoby, Cist. Ent., ii., p. 524.<br>(? Sect. 2).   | Peru.        |
| <i>D. scapularis</i> , Bohem, Res. Eugen., p. 179.  | Rio Janeiro. |
| <i>D. suturalis</i> , Oliv., Encyclopédie Méthodique, vi.,<br>p. 591. (? Sect. 2. "Resembles <i>D. vittata</i> ,<br>Fabr., and <i>D. pallipes</i> , Oliv.").) | Cayenne,     |
| <i>D. terminalis</i> , Jacoby. Cist. Ent., ii. (1879), p. 525.<br>(Sect. 2).  | Peru.        |
| <i>D. togata</i> , Harold, Col., Hefte xiii., p. 92.  | Peru.        |
| <i>D. trifasciata</i> , Fabr., Syst. Eleuth., i., p. 452.   | Amer. mer.   |
| <i>D. variolosa</i> , Jacoby, P. Z. S., 1878, p. 151. (Sect. 1.<br>"Allied to <i>D. marginata</i> ," and to <i>D. chrysopleura</i> ,<br>Harold).              | Ecuador.     |
| <i>D. varipes</i> , Bohem., l. c., p. 180. (= <i>D. perplexa</i> ,<br>Baly. Sect. 2, No. 18).   | Rio Janeiro. |
| <i>D. zonata</i> , Harold, l. c., p. 91. (This is a variety of<br><i>D. adonis</i> , Baly. Sect. 2, No. 35).  | Colombia.    |

In *D. sexplagiata*, Jacoby, and *D. nigroguttata*, Baly, the claws of the tarsi are appendiculate. These two species have all the characters of *Neobrotica*. *D. 12-signata*, Baly, also has appendiculate claws, and must be removed from the genus.

The following corrections must be made in Mr. Baly's paper, "On the South American species of *Diabrotica*. Part I." (Trans. Ent. Soc. Lond., 1890):—Page 48, under Species 85, for Ent. Soc. read Linn. Soc. P. 57, Species 100, for *Diabrotica atrivittata* read *D. atrilineata*. P. 58, Species 102, for *atrilineata* substitute *atrivittata*, and delete the reference, "Ent. Month. Mag., xxv., p. 252." P. 67, Species 117, after *Hab.* read Cayenne, instead of Brazil, Rio Janeiro. (The single type-specimen is ticketed with the former locality). In the references in the same paper to Proc. Zool. Soc., 1889, for pp. 92, 93, 94, and 95, read respectively pp. 88, 89, 90, and 91.